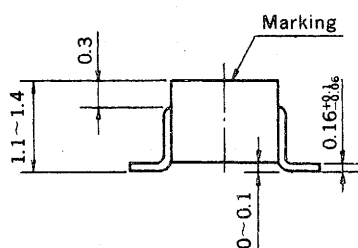
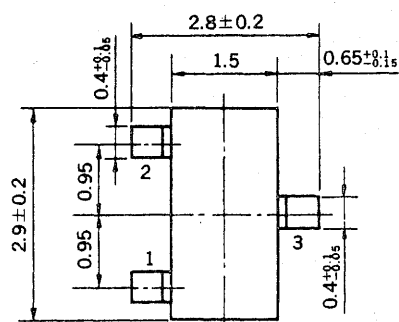
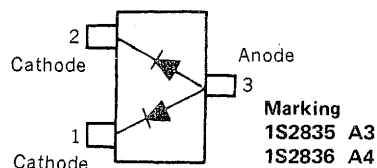


HIGH SPEED SWITCHING SILICON EPITAXIAL DOUBLE DIODES : COMMON ANODE MINI MOLD

PACKAGE DIMENSIONS in millimeters



Connection Diagram (Top View)



FEATURES

- Low capacitance: $C_t = 2.5$ pF TYP.
- High speed switching: $t_{rr} = 4.0$ ns MAX.
- Wide applications including switching, limiter, clipper.
- Double diode configuration assures economical use.

ABSOLUTE MAXIMUM RATINGS

Maximum Voltages and Currents ($T_a = 25^\circ\text{C}$)

		1S2835	1S2836	
Peak Reverse Voltage	V_{RM}	35	75	V
DC Reverse Voltage	V_R	30	50	V
Surge Current ($1\ \mu\text{s}$)*	I_{FSM}	6.0	6.0	A
Surge Current ($1\ \mu\text{s}$)	I_{FSM}	4.0	4.0	A
Peak Forward Current*	I_{FM}	450	450	mA
Peak Forward Current	I_{FM}	300	300	mA
Average Rectified Current*	I_O	150	150	mA
Average Rectified Current	I_O	100	100	mA

Maximum Temperatures

Junction Temperature	T_j	125	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +125	-55 to +125	$^\circ\text{C}$

Thermal Resistance

Junction to Ambient*	$R_{th(j-a)}$	1.0	1.0	$^\circ\text{C}/\text{mW}$
Junction to Ambient	$R_{th(j-a)}$	0.67	0.67	$^\circ\text{C}/\text{mW}$

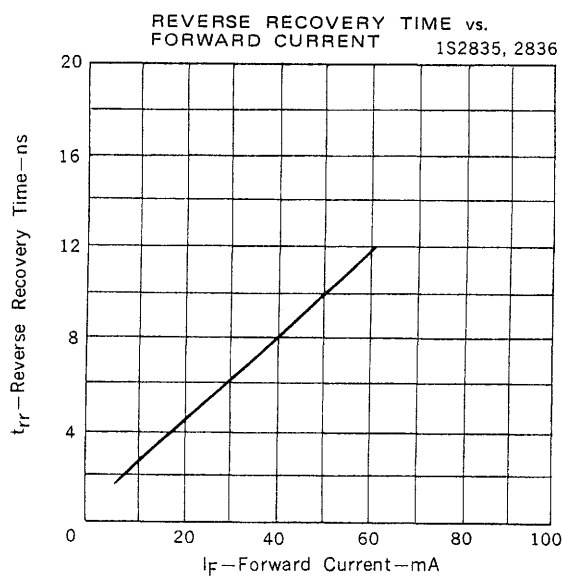
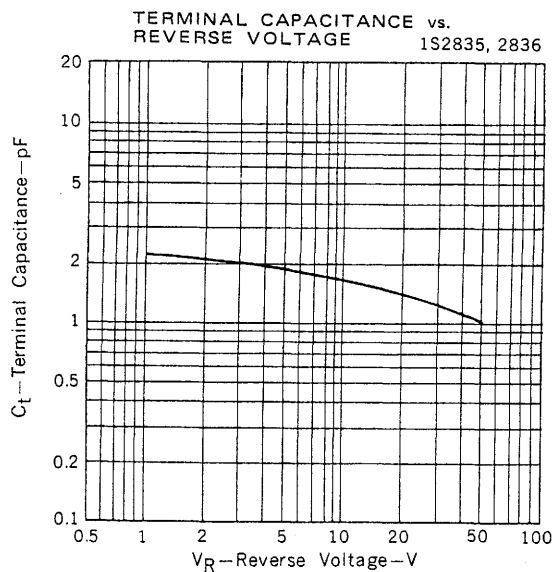
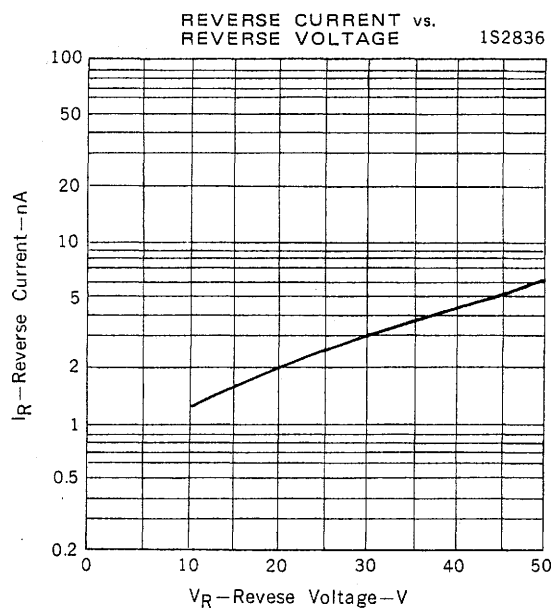
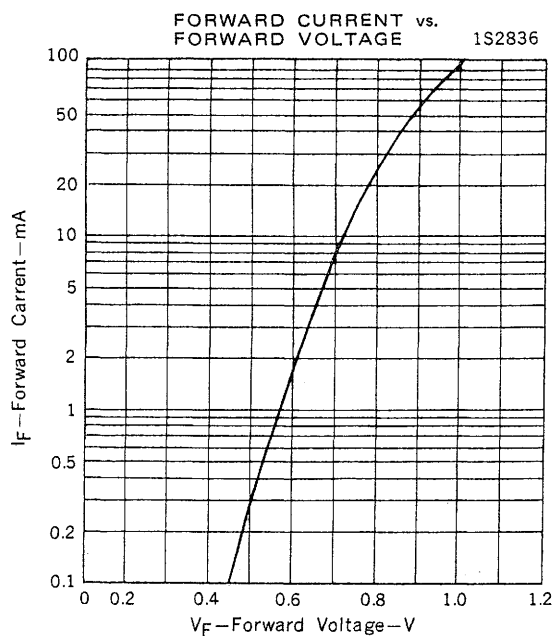
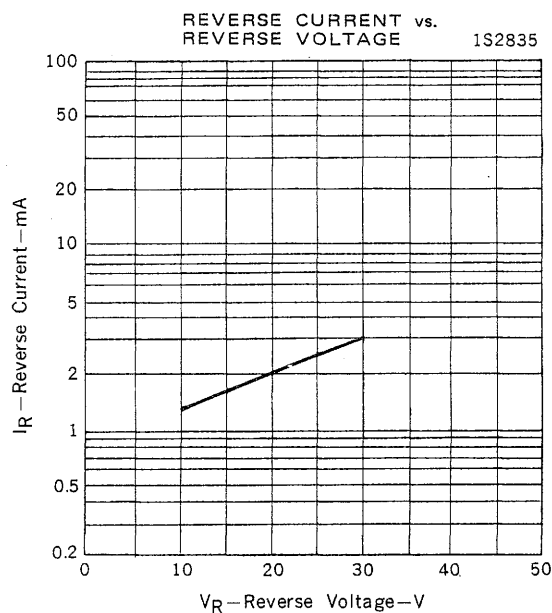
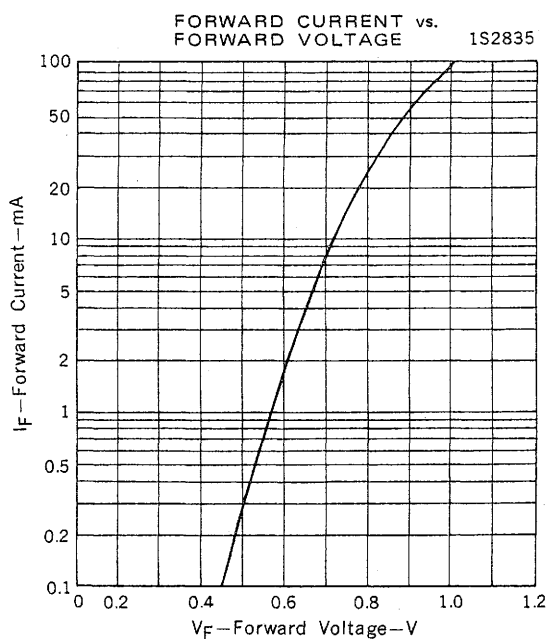
* Both diodes loaded simultaneously.

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

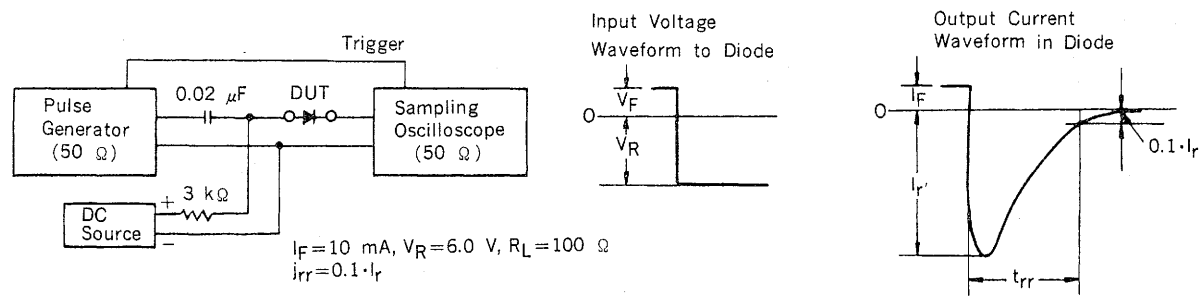
CHARACTERISTIC	SYMBOL	1S2835 (A3)			1S2836 (A4)			UNIT	TEST CONDITIONS
		MIN.	TYP.	MAX.	MIN.	TYP.	MAX.		
Forward Voltage	V_{F1}		0.72	1.0		0.72	1.0	V	$I_F = 10$ mA
	V_{F2}		0.88	1.1		0.88	1.1	V	$I_F = 50$ mA
	V_{F3}		1.0	1.2		1.0	1.2	V	$I_F = 100$ mA
Reverse Current	I_R			0.1				μA	$V_R = 30$ V
	I_R						0.1	μA	$V_R = 50$ V
Capacitance	C_t		2.5	4.0		2.5	4.0	pF	$V_R = 0$, $f = 1.0$ MHz
Reverse Recovery Time	t_{rr}			4.0			4.0	ns	See Test Circuit.

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TYPICAL ELECTRICAL CURVES ($T_a = 25^\circ\text{C}$)



REVERSE RECOVERY TIME (t_{rr}) TEST CIRCUIT



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